X99M KILLER Series

Intel® X99 Chipset

GAMING MOTHERBOARD

FATAL1TY GAMING GEAR

Product Brief

- ASRock Super Alloy
  XXL Aluminum Alloy Heatsink
  Premium 60A Power Choke
  Premium Memory Alloy Choke
  Ultra Dual-N MOSFET (UDM)
  NexFET™ MOSFET
  Nichicon 12K Platinum Caps
  Sapphire Black PCB
- Gaming Armor
  CPU Power - Hi-Density Power Connector + Ultra Dual-N MOSFET
  Memory - NexFET™ MOSFET + 15μ Gold Contact in DIMM Slots
  VGA Card - 15μ Gold Contact in VGA PCIe Slot + PCIe Power Connector
  Cooling - XXL Aluminum Alloy Heatsink
  Internet - Intel LAN + Qualcomm Atheros Killer LAN
  Audio - Purity Sound™ 2
- Supports Intel® Core™ i7 and Xeon® 18-Core Processors Family for the LGA 2011-3 Socket
- Digi Power, 12 Power Phase design
- Supports Quad Channel DDR4 3000+(OC), Supports ECC*, RDIMM Memory
  *ECC is supported with Intel Xeon processors.
- 2 PCIe 3.0 x16, 1 PCIe 2.0 x16
- Supports AMD Quad CrossFireX™ and NVIDIA® Quad SLI™
- 7.1 CH HD Audio with Content Protection (Realtek ALC1150 Audio Codec),
  Supports Purity Sound™ 2 & DTS Connect
- Intel® Gigabit LAN + Qualcomm Atheros Killer LAN
- 10 SATA3, 1 eSATA, 1 Ultra M.2 (PCIe Gen3 x4 & SATA3)
- 6 USB 3.0 (2 Front, 4 Rear), 8 USB 2.0 (4 Front, 3 Rear, 1 Fatal1ty Mouse Port)
- 1 COM Port Header, 1 Thunderbolt AIC Connector
- Supports ASRock HDD Saver Technology, Full Spike Protection, ASRock Cloud, APP Shop, F-Stream, Key Master, XSplit

Super Alloy Motherboard — Stable and Reliable

Killer E2200 Game Networking

Gaming Armor

ECC & RDIMM

XSplit — GOING LIVE IS SIMPLE!

Ultra M.2 GEN3 X4 & SATA3

Orbweb ME Professional USD$ 49.99 1-year subscription FREE

ASRock Cloud

Purity Sound™ 2

ASRock APP SHOP

Detail Specification

Platform	- Micro ATX Form Factor - High Density Glass Fabric PCB
Unique Feature	ASRock Super Alloy - XXL Aluminum Alloy Heatsink - Premium 60A Power Choke - Premium Memory Alloy Choke (Reduces 70% core loss compared to iron powder choke) - Ultra Dual-N MOSFET (UDM) - NexFET™ MOSFET - Nichicon 12K Platinum Caps (100% Japan made high quality conductive polymer capacitors) - Sapphire Black PCB ASRock Ultra M.2 (PCIe Gen3 x4 & SATA3) ASRock HDD Saver Technology ASRock Full Spike Protection ASRock Cloud ASRock APP Shop
Gaming Armor	CPU Power - Hi-Density Power Connector - Dual-Stack MOSFET (DSM) Memory - NexFET™ MOSFET - 15μ Gold Contact in DIMM Slots VGA Card - 15μ Gold Contact in VGA PCIe Slot (PCIE2) - PCIe Power Connector Internet - Intel® LAN - Qualcomm® Atheros® KillerTM LAN Cooling - XXL Aluminum Alloy Heatsink Audio - Purity Sound™ 2
CPU	- Supports Intel® Core™ i7 and Xeon® 18-Core Processors Family for the LGA 2011-3 Socket - Digi Power design - 12 Power Phase design - Supports Intel® Turbo Boost 2.0 Technology - Supports Untied Overclocking Technology
Chipset	- Intel® X99
Memory	- Quad Channel DDR4 Memory Technology - 4 x DDR4 DIMM Slots - Supports DDR4 3000+(OC)*/2933+(OC)/2800(OC)/2400(OC)/2133/1866/1600/1333/1066 non-ECC, un-buffered memory * Please refer to Memory Support List on ASRock's website for more information. (http://www.asrock.com/) - Supports non-ECC RDIMM (Registered DIMM) - Supports DDR4 ECC, un-buffered memory/RDIMM with Intel® Xeon® processors E5 series in the LGA 2011-3 Socket - Max. capacity of system memory: 64GB - Supports Intel® Extreme Memory Profile (XMP) 2.0
Expansion Slot	- 2 x PCI Express 3.0 x16 Slots (PCIE1 @ x16 mode; PCIE2 @ x16 mode) * If you install CPU with 28 lanes, PCIE1/PCIE2 will run at x16/x8. - 1 x PCI Express 2.0 x16 Slot (PCIE3 @ x4 mode) - Supports AMD Quad CrossFireX™ and CrossFireX™ - Supports NVIDIA® Quad SLI™ and SLI™
Audio	- 7.1 CH HD Audio with Content Protection (Realtek ALC1150 Audio Codec) - Premium Blu-ray Audio support - Supports Surge Protection (ASRock Full Spike Protection) - Supports Purity Sound™ 2 - Nichicon Fine Gold Series Audio Caps - 115dB SNR DAC with Differential Amplifier - TI® NE5532 Premium Headset Amplifier (Supports up to 600 Ohm headsets) - Direct Drive Technology - EMI Shielding Cover - PCB Isolate Shielding - Supports DTS Connect
LAN	- 1 x Intel® I218V (Gigabit LAN PHY 10/100/1000 Mb/s) - 1 x Qualcomm® Atheros® Killer™ E2200 Series (PCIE x1 Gigabit LAN 10/100/1000 Mb/s) - Supports Qualcomm® Atheros® Security Wake On Internet Technology (on Qualcomm® Atheros® Killer™ E2200 Series) - Supports Wake-On-LAN - Supports Lightning/ESD Protection (ASRock Full Spike Protection) - Supports Energy Efficient Ethernet 802.3az - Supports PXE
Rear Panel I/O	- 1 x PS/2 Mouse/Keyboard Port - 1 x Optical SPDIF Out Port - 1 x eSATA Connector - 3 x USB 2.0 Ports (Supports ESD Protection (ASRock Full Spike Protection)) - 1 x Fatal1ty Mouse Port (USB 2.0) (Supports ESD Protection (ASRock Full Spike Protection)) - 4 x USB 3.0 Ports (Supports ESD Protection (ASRock Full Spike Protection)) - 2 x RJ-45 LAN Ports with LED (ACT/LINK LED and SPEED LED) - 1 x Clear CMOS Switch - HD Audio Jacks: Rear Speaker / Central / Bass / Line in / Front Speaker / Microphone
Storage	- 10 x SATA3 6.0 Gb/s Connectors, support RAID (RAID 0, RAID 1, RAID 5, RAID 10 and Intel Rapid Storage 13), NCQ, AHCI, Hot Plug and ASRock HDD Saver Technology (S_SATA3_3 connector is shared with the eSATA port) (S_SATA3_2 connector is shared with Ultra M.2 Socket) * RAID is supported on SATA3_0 ~ SATA3_5 ports only. - 1 x eSATA Connector, supports NCQ, AHCI and Hot Plug - 1 x Ultra M.2 Socket, supports M.2 SATA3 6.0 Gb/s module and M.2 PCI Express module up to Gen3 x4 (32 Gb/s)
Connector	- 1 x COM Port Header - 1 x TPM Header - 1 x Power LED Header - 2 x CPU Fan Connectors (1 x 4-pin, 1 x 3-pin) - 2 x Chassis Fan Connectors (1 x 4-pin, 1 x 3-pin) (Smart Fan Speed Control) - 1 x Power Fan Connector (3-pin) - 1 x 24 pin ATX Power Connector - 1 x 8 pin 12V Power Connector (Hi-Density Power Connector) - 1 x HDD Saver Connector - 1 x PCIe Power Connector - 1 x Front Panel Audio Connector - 1 x Thunderbolt AIC Connector - 2 x USB 2.0 Headers (support 4 USB 2.0 ports) (Supports ESD Protection (ASRock Full Spike Protection)) - 1 x USB 3.0 Header (Supports 2 USB 3.0 ports) (Supports ESD Protection (ASRock Full Spike Protection)) - 1 x Dr. Debug with LED - 1 x Power Switch with LED - 1 x Reset Switch with LED - 1 x BIOS Selection Switch
BIOS Feature	- 2 x 128Mb AMI UEFI Legal BIOS with multilingual GUI support (1 x Main BIOS and 1 x Backup BIOS) - Supports Secure Backup UEFI Technology - ACPI 1.1 Compliant wake up events - SMBIOS 2.3.1 Support - CPU, DRAM, PCH 1.05V, PCH 1.5V, VPPM Voltage Multi-adjustment
Support CD	- Drivers, Utilities, AntiVirus Software (Trial Version), Google Chrome Browser and Toolbar, Start8 (30 days trial), Orbweb.ME Professional (Win 8.1 / 7), XSplit, Killer Network Manager
Software and UEFI	Software - ASRock F-Stream - ASRock Disk Health Report - ASRock USB Key - ASRock Key Master - ASRock APP Charger - ASRock XFast RAM - ASRock Restart to UEFI UEFI - ASRock Full HD UEFI - ASRock Instant Flash - ASRock Internet Flash - ASRock Crashless BIOS - ASRock OMG (Online Management Guard) - ASRock UEFI System Browser - ASRock UEFI Tech Service - ASRock Dehumidifier - ASRock Easy RAID Installer - ASRock Easy Driver Installer
Hardware Monitor	- CPU/Chassis temperature sensing - CPU/Chassis/Power Fan Tachometer - CPU/Chassis Quiet Fan (Auto adjust chassis fan speed by CPU temperature) - CPU/Chassis Fan multi-speed control - Voltage monitoring: +12V, +5V, +3.3V, CPU Input Voltage, CPU Internal Voltages
OS	- Microsoft® Windows® 8.1 32-bit / 8.1 64-bit / 8 32-bit / 8 64-bit / 7 32-bit / 7 64-bit
Certifications	- FCC, CE, WHQL - ErP/EuP ready (ErP/EuP ready power supply is required)
Accessories	- 1 x ASRock SLI_Bridge Card - Quick Installation Guide, Support CD, I/O Shield - 2 x SATA Data Cables - 1 x HDD Saver Cable - 1 x Screw for Ultra M.2 Socket

The specification is subject to change without notice. The brand and product names are trademarks of their respective companies. Any configuration other than the original product specification is not guaranteed.

X99M KILLER SERIES
Intel® X99 Chipset

GAMING MOTHERBOARD

FATAL1TY GAMING GEAR

Killer E2200 GAME NETWORKING

FAST Networking Performance

NO LAG, JUST FRAG!

Fatal1ty ASRock Motherboard Series features Killer™ E2200 Intelligent Networking Platform, which delivers fast networking performance for time-sensitive UDP (User Datagram Protocol) based applications, such as online games and high-quality media streaming.

Lower Latency in Online Games

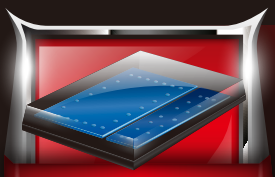
Automatic Gaming Traffic Prioritization

Super Alloy Motherboard

Stable and Reliable

The extra large massive aluminum alloy heatsinks dramatically take away heat and cool down MOSFETs, chipsets.

XXL Aluminum Alloy Heatsink Design



Ultra Dual-N MOSFET

Combining with two silicon dies into one MOSFET, Ultra Dual-N MOSFET provides larger die area and lower Rds(on), so the power supply for the CPU Vcore is more efficient.

Nichicon's supreme 12K platinum capacitors! The industry's longest lifespan – 12,000 hours.*

* Tested under industry standard 105 degree Celsius ambient temperature.

Nichicon 12K Platinum Caps

Premium Memory Alloy Choke

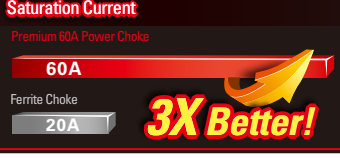
Specially designed for memory power delivery, the new-gen alloy chokes feature a highly magnetic and heat resistant design, thus delivering more stable and reliable power to the motherboard.

The next generation NexFET MOSFETs provide lower Rds(on) 2.9 mΩ, delivering higher efficiency and lower temperature.

NexFET MOSFET for Memory Power

Premium 60A Power Choke

Compared to traditional chokes, ASRock's new-gen premium power chokes effectively increase up to 3 times better saturation current, providing enhanced and improved Vcore voltage to the motherboard.



Pure black PCB appearance. The new Sapphire Black PCB represents rock-solid quality and gives the motherboard a more mysterious touch.

Sapphire Black PCB

The specification is subject to change without notice. The brand and product names are trademarks of their respective companies. Any configuration other than the original product specification is not guaranteed.

X99M KILLER Series

Intel® X99 Chipset

GAMING MOTHERBOARD

FATAL1TY GAMING GEAR

Gaming Armor

Built to Kill

CPU Power

Hi-Density Power Connector

Reducing 23% Power Loss and 22°C Pin Header Temperature

Ultra Dual-N MOSFET(UDM)

Combining Two Silicon Dies Into a MOSFET, Lower Rds(on), More Efficient

Memory

NexFET™ MOSFET

The Next-Gen MOSFET Lower Rds(on) 2.9 mΩ Lower Temperature & Higher Efficiency

15µ Gold Contact in DIMM Slots

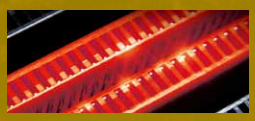
Providing Better Anti-Oxidation Protection

VGA Card

PCIe Power Connector

Providing More Juice & Stability for VGA cards

15µ Gold Contact in VGA PCIe Slots



Providing Better Anti-Oxidation Protection

Audio

Purity Sound™ 2

Including 7.1 CH HD audio with Realtek ALC1150 audio codec, 115dB SNR DAC with Differential Amplifier and Nichicon Fine Gold audio caps that reduce noise level significantly and satisfy even the pickiest audiophiles.

Internet

Intel® Ethernet

Better Performance, Lower CPU Utilization

Killer E2200 Game Networking

FAST Networking Performance

Cooling

XXL Aluminum Alloy Heatsink

The Extra Large Heatsinks Dramatically Take Away Heat & Cool Down MOSFETs, Chipsets

Supports DDR4 ECC / RDIMM Memory Modules

ECC & RDIMM

This motherboard is capable of supporting DDR4 ECC and RDIMM (Registered DIMM) memory modules which deliver server-grade performance and durability for high-powered computing systems.

ASRock APP Shop

ASROCK APP SHOP

We provide various apps and support software for users to download. You can easily optimize your system and keep your motherboard up to date with ASRock APP Shop.

Ultra M.2

The World's Fastest M.2 Socket

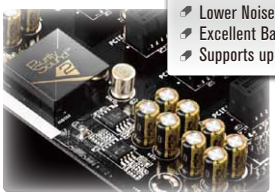
- PCIe Gen3 x4 & SATA3

Ultra M.2 GEN3 X4 & SATA3

The onboard M.2 socket is a new interface for connecting Next Generation Form Factor (NGFF) SSDs or other devices. ASRock is the first in the world to implement PCIe Gen3 x4 M.2 socket on motherboards. The ultimate Ultra M.2 interface pushes the speed up to 32Gb/s which is 6X faster compared to other M.2 Gen2 x1 solutions that are limited to 5Gb/s. In addition to support PCIe Gen3 x4 M.2 modules, the Ultra M.2 also supports SATA3 6Gb/s M.2 modules.

Purity Sound™ 2

Purity Sound™ 2 includes 7.1 CH HD audio with Realtek ALC1150 audio codec, 115dB SNR DAC with Differential Amplifier, cap less Direct Drive technology, EMI shielding cover, PCB isolate shielding and DTS Connect. As Nichicon audio capacitors are what every audiophile has been longing for on a PC, ASRock applied these high quality capacitors for Purity Sound™ 2.



Purity Sound™ 2 brings you:

- 115dB SNR
- Lower Noise
- Excellent Bass For All Headphones
- Supports up to 600ohm Headphones

The specification is subject to change without notice. The brand and product names are trademarks of their respective companies. Any configuration other than the original product specification is not guaranteed.

Key Master

Key Master consists of two major features, Sniper Key and Macro Key. It enhances your mouse and keyboard with customizable macros, sniper modes, key repeat rates and repeat delay.

Sniper Key

Use Sniper Key to shift the mouse speed when you're in sniper mode, it will greatly sharpen your accuracy.

Without Sniper Key | With Sniper Key

Macro Key

Create your own set of keyboard hotkeys and macros with Macro Key to save the trouble.

XSplit
GOING LIVE IS SIMPLE!

XSplit Broadcaster is a desktop application designed to make your multimedia broadcasting, live-streaming and recording a lot easier and more fun. XSplit Gamecaster is a simplified version of XSplit Broadcaster. We're giving XSplit Broadcaster & XSplit Gamecaster 3-month premium license bundle for FREE! A US$24.95 value!

* XSplit is provided by a third party. Restriction may apply and the offer is subject to change, termination or discontinuation by the third party without prior notice. Please visit the website for further details: http://www.asrock.com/microsite/Fatal1ty/

Broadcast Platform | Broadcast Software | Broadcasting!

ASRock Cloud* technology makes your mobile devices connect to your PC seamlessly! We offer a one-year subscription to Orbweb.ME Professional version, a personal cloud service which is $49.99 per year. It allows you to get connected with your PC's files, music, photos, and video clips remotely with tablets anytime, anywhere. Plus an additional one-month upgrade to Orbweb.ME Ultimate package with Remote Desktop function.

* OrbWeb ME is provided by a third party. Restriction may apply and the offer is subject to change, termination or discontinuation by the third party without prior notice. Please visit the website for further details: http://www.asrock.com/feature/cloud/index.html

Fatal1ty Mouse Port

After plugging a USB mouse into the Fatal1ty Mouse Port and running F-Stream, gamers can choose their own preferred mouse polling rate from 125 Hz to 1000 Hz.

F-Stream

F-Stream is Fatal1ty's multi purpose software suite with a new interface, more new features and improved utilities, including OC Tweaker and a whole lot more.

HDD Saver Technology

There's a dedicated 4-pin HDD Saver Connector placed near the SATA ports. By connecting it to the HDDs, you can shut down or turn on the HDDs via software when needed. HDD Saver Technology secures more privacy, saves more energy, and extends HDD life.

The specification is subject to change without notice. The brand and product names are trademarks of their respective companies. Any configuration other than the original product specification is not guaranteed.